## LIST OF CLAIMS

1. (Currently Amended) A carboxylic acid compound represented by the following formula, a salt thereof, an ester thereof or a hydrate thereof of them.

$$Y=L=X=T - (Z) M - (I)$$

In in the formula, R1 represents hydrogen atom, hydroxyl group or a  $C_{1-6}$  alkyl group,  $C_{1-6}$  alkoxy group,  $C_{1-6}$  alkylthio group,  $C_{1-6}$  hydroxyalkyl group,  $C_{1-6}$  hydroxyalkoxy group,  $C_{1-6}$ hydroxyalkylthio group,  $C_{1-6}$  aminoalkyl group,  $C_{1-6}$  aminoalkoxy group,  $C_{1-6}$  aminoalkylthio group,  $C_{1-6}$  halogenated alkyl group,  $C_{1-6}$ 6 halogenated alkoxy group, C<sub>1-6</sub> halogenated alkylthio group, C<sub>2-12</sub> alkoxyalkyl group,  $C_{2-12}$  alkoxyalkoxy group,  $C_{2-12}$  alkoxyalkylthio group,  $C_{3-7}$  eyeyloalkyl cycloalkyl group,  $C_{3-7}$  cycloalkyloxy group,  $C_{3-7}$  cycloalkylthio group,  $C_{2-6}$  alkenyl group,  $C_{2-6}$ alkenyloxy group,  $C_{2-6}$  alkenylthio group,  $C_{2-6}$  alkynyl group,  $C_{2-6}$ alkynyloxy group,  $C_{2-6}$  alkynylthio group,  $C_{6-12}$  aryl group,  $C_{6-12}$ aryloxy group, C<sub>6-12</sub> arylthio group, C<sub>7-18</sub> alkylaryl group, C<sub>7-18</sub> alkylaryloxy group,  $C_{7-18}$  alkylarylthio group,  $C_{7-18}$  aralkyl group,  $C_{7-18}$  aralkyloxy group or  $C_{7-18}$  aralkylthio group, each of which may be substituted have one or more substituents; L represents a single or double bond or a  $C_{1-6}$  alkylene group,  $C_{2-6}$  alkenylene group or  $C_{2-6}$  alkynylene group, each of which may be substituted

have one or more substituents; M represents a single bond or a  $C_{1-6}$  alkylene group,  $C_{2-6}$  alkenylene group or  $C_{2-6}$  alkynylene group, each of which may be substituted have one or more substituents; T represents a single bond or a C1-3 alkylene group,  $C_{2-3}$  alkenylene group or  $C_{2-3}$  alkynylene group, each of which may be substituted have one or more substituents; W represents 2,4-dioxothiazolidine-5-yl group, 2,4dioxothiazolidine-5-ylidene group, carboxyl group or a group represented by the formula  $-CON(R^{w1})R^{w2}$  (wherein  $R^{w1}$  and  $R^{w2}$  are the same as or different from each other and each represents hydrogen atom, formyl group or a  $C_{1-6}$  alkyl group,  $C_{2-7}$  aliphatic acyl group or  $C_{7-19}$  aromatic acyl group, each of which may be substituted have one or more substituents), provided that in the case where T is a single bond and W is 2,4-dioxothiazolidine-5yl group or 2,4-dioxothiazolidine-5-ylidene group in the above definition is excluded; --- represents a single or double bond; X represents oxygen atom, a  $C_{2-6}$  alkenylene group which may be substituted have one or more substituents, hydroxymethylene group or a group represented by the formula -CQ- (wherein Q represents oxygen atom or sulfur atom),  $-CQNR^{x}-$  (wherein Q represents the same group as defined above, and Rx represents hydrogen atom, formyl group or a  $C_{1-6}$  alkyl group,  $C_{2-7}$  aliphatic acyl group or C<sub>7-19</sub> aromatic acyl group, each of which may be

substituted have one or more substituents), -NR\*CQ- (wherein Q and Rx each represent the same group as defined above), -SO2NRx-(wherein R<sup>x</sup> represents the same group as defined above), -NR<sup>x</sup>SO<sub>2</sub>-(wherein R represents the same group as defined above) or -NR<sup>x1</sup>CQNR<sup>x2</sup>- (wherein Q represents the same group as defined above, and  $R^{x1}$  and  $R^{x2}$  are the same as or different from each other and each represents hydrogen atom, formyl group or a C<sub>1-6</sub> alkyl group,  $C_{2-7}$  aliphatic acyl group or  $C_{7-19}$  aromatic acyl group, each of which may have one or more substituents), provided that the case where T is a single bond and X is oxygen atom in the above definition is excluded; Y represents a  $C_{5-12}$  aromatic hydrocarbon group or C<sub>3-7</sub> alicyclic hydrocarbon group which may have one or more substituents and which may have one or more heteroatoms selected from the group consisting of oxygen atom, sulfur atom, nitrogen atom, phosphorus, arsenic, antimony, silicon, germanium, tin, lead, boron or mercury; ring Z represents a C5-6 aromatic hydrocarbon group benzene which may have 0 to 4 substituents and which may have one or more hetero atoms; and wherein a group represented by the formula:

## Y==L==X==T-

(wherein each symbol has the same meaning as defined above) and wherein a group represented by the formula:

$$-M=-W$$

(wherein each symbol has the same meaning as defined above) are bound to each other via 3 atoms on the ring Z, and

wherein the substituent for the substituted  $C_{1-6}$  aryl group is at least one selected from the group consisting of hydroxyl group, thiol group, nitro group, morpholino group, thiomorpholino group, a halogen atom, nitrile group, azide group, formyl group, alkyl group, alkenyl group, alkynyl group, alkoxy group, halogenoalkyl group, hydroxyalkyl group, guanidino group, formimidoyl group, acetoimidoyl group, carbamoyl group, thiocarbamoyl group, carbamoyl alkyl group, alkyl carbamoyl group, carbamide group, alkanoyl group, amino group, alkyl amino group, dialkyl amino group, amino alkyl group, carboxy group, alkoxycarbonyl group, alkoxycarbonyl alkyl group, alkyloxyalkyl group, alkylthioalkyl group, aminoalkyl aminoalkyl group, alkyl carbonyloxy group, arylalkoxy alkoxy alkyl group, hydroxyalkoxyalkyl group, arylalkoxyalkyl group, quaternary ammonio group, cycloalkyl group, cycloalkenyl group, aryl group, alkyl thio group, aryl thio group, aryl lower alkyl group, sulfonyl group, aryloyl group, halogenoaryl group, and oxyalkoxy group, and

wherein the substituent for all other substituted groups
are at least one selected from the group consisting of alkyl
group, alkenyl group, alkynyl group, alkoxy group substituted
with hydroxyl group, thiol group, nitro group, morpholino group,
thiomorpholino group, halogen atom, nitrile group, azide group,
formyl group, amino group, alkyl amino group, dialkyl amino
group, carbamoyl group and sulfonyl group.

- 2. (Currently Amended) The carboxylic acid compound according to claim 1, a salt thereof, an ester thereof or a hydrate thereof of them, wherein in the formula (I), W is a carboxylic acid.
- 3. (Currently Amended) The carboxylic acid compound according to claim 1 or 2, a salt thereof, an ester thereof or a hydrate thereof of them, wherein in the formula (I),  $R^1$  is a  $C_{1-6}$  alkyl group or  $C_{1-6}$  alkoxy group each of which may be substituted as defined in claim 1 have one or more substituents.
  - 4. Canceled.
- 5. (Currently Amended) The carboxylic acid compound according to claim 1 or 2, a salt thereof, an ester thereof or a

hydrate thereof of them, wherein in the formula (I), X is a group represented by the formula  $-CQNR^x$ - (wherein Q and  $R^x$  are represent the same group as defined above in claim 1) or  $-NR^xCQ$ - (wherein Q and  $R^x$  are represent the same group as defined above in claim 1).

- 6. (Currently Amended) The carboxylic acid compound according to claim 1 or 2, a salt thereof, an ester thereof or a hydrate thereof of them, wherein in the formula (I), Y is a  $C_{5-12}$  aromatic hydrocarbon group which may be substituted as defined in claim 1 have one or more substituents.
- 7. (Currently Amended) The carboxylic acid compound according to claim 1 or 2, a salt thereof, an ester thereof or a hydrate thereof of them, wherein in the formula (I), L or M is a  $C_{1-6}$  alkylene group.
- 8. (Currently Amended) The carboxylic acid compound according to claim 1 or 2, a salt thereof, an ester thereof or a hydrate thereof of them, wherein in the formula (I), T is a  $C_{1-3}$  alkylene group.

- 9. (Currently Amended) The carboxylic acid compound according to claim 1 or 2, a salt thereof, an ester thereof or a hydrate thereof of them, wherein in the formula (I),  $R^1$  is a  $C_{1-6}$  alkyl group or  $C_{1-6}$  alkoxy group which may be substituted as defined in claim 1 have one or more substituents; and ring Z is a benzene ring which may further have 0 to 4 substituents.
- 10. (Currently Amended) The carboxylic acid compound according to claim 1 or 9, a salt thereof, an ester thereof or a hydrate thereof of them, wherein in the formula (I), X is a group represented by the formula  $-CQNR^x-$  (wherein Q and  $R^x$  represent the same group are as defined above in claim 1) or  $-NR^xCQ-$  (wherein Q and  $R^x$  represent the same group are as defined above in claim 1); and Y is a  $C_{5-12}$  aromatic hydrocarbon group which may be substituted as defined in claim 1 have one or more substituents.
- 11. (Currently Amended) A <u>pharmaceutical composition</u>

  medicament comprising a carboxylic acid compound represented by
  the following formula, a salt thereof, an ester thereof or a
  hydrate thereof <del>of them.</del>

$$Y=L=X=T - (Z) M=- W$$
 (I)

In in the formula, R<sup>1</sup> represents hydrogen atom, hydroxyl group or a  $C_{1-6}$  alkyl group,  $C_{1-6}$  alkoxy group,  $C_{1-6}$  alkylthio group,  $C_{1-6}$  hydroxyalkyl group,  $C_{1-6}$  hydroxyalkoxy group,  $C_{1-6}$ hydroxyalkylthio group,  $C_{1-6}$  aminoalkyl group,  $C_{1-6}$  aminoalkoxy group,  $C_{1-6}$  aminoalkylthio group,  $C_{1-6}$  halogenated alkyl group,  $C_{1-6}$ 6 halogenated alkoxy group, C<sub>1-6</sub> halogenated alkylthio group, C<sub>2-12</sub> alkoxyalkyl group,  $C_{2-12}$  alkoxyalkoxy group,  $C_{2-12}$  alkoxyalkylthio group,  $C_{3-7}$  eyeyloalkyl cycloalkyl group,  $C_{3-7}$  cycloalkyloxy group,  $C_{3-7}$  cycloalkylthio group,  $C_{2-6}$  alkenyl group,  $C_{2-6}$ alkenyloxy group,  $C_{2-6}$  alkenylthio group,  $C_{2-6}$  alkynyl group,  $C_{2-6}$ alkynyloxy group,  $C_{2-6}$  alkynylthio group,  $C_{6-12}$  aryl group,  $C_{6-12}$ aryloxy group,  $C_{6-12}$  arylthio group,  $C_{7-18}$  alkylaryl group,  $C_{7-18}$ alkylaryloxy group,  $C_{7-18}$  alkylarylthio group,  $C_{7-18}$  aralkyl group,  $C_{7-18}$  aralkyloxy group or  $C_{7-18}$  aralkylthio group, each of which may be substituted have one or more substituents; L represents a single or double bond or a  $C_{1-6}$  alkylene group,  $C_{2-6}$  alkenylene group or  $C_{2-6}$  alkynylene group, each of which may be substituted have one or more substituents; M represents a single bond or a  $C_{1-6}$  alkylene group,  $C_{2-6}$  alkenylene group or  $C_{2-6}$  alkynylene group, each of which may be substituted have one or more substituents; T represents a single bond or a  $C_{1-3}$  alkylene group,  $C_{2-3}$  alkenylene group or  $C_{2-3}$  alkynylene group, each of which may be substituted have one or more substituents; W

represents 2,4-dioxothiazolidine-5-yl group, 2,4dioxothiazolidine-5-ylidene group, carboxyl group or a group represented by the formula  $-CON(R^{w1})R^{w2}$  (wherein  $R^{w1}$  and  $R^{w2}$  are the same as or different from each other and each represents hydrogen atom, formyl group or a  $C_{1-6}$  alkyl group,  $C_{2-7}$  aliphatic acyl group or C<sub>7-19</sub> aromatic acyl group, each of which may be substituted have one or more substituents), provided that in the case where T is a single bond and W is 2,4-dioxothiazolidine-5yl group or 2,4-dioxothiazolidine-5-ylidene group in the above definition is excluded; --- represents a single or double bond; X represents oxygen atom, a  $C_{2-6}$  alkenylene group which may be substituted have one or more substituents, hydroxymethylene group or a group represented by the formula -CQ- (wherein Q represents oxygen atom or sulfur atom), -CQNRx- (wherein Q represents the same group as defined in claim 1 above, Rx represents hydrogen atom, formyl group or a C<sub>1-6</sub> alkyl group, C<sub>2-7</sub> aliphatic acyl group or C<sub>7-19</sub> aromatic acyl group, each of which may be substituted have one or more substituents), -NR\*CQ-(wherein Q and R\* each represent the same group as defined above), -SO<sub>2</sub>NR\*- (wherein R\* represents the same group as defined in claim 1 above), -NR\*SO<sub>2</sub>- (wherein R\* represents the same group as defined in claim 1 above) or -NRx1CONRx2- (wherein 0 represents the same group as defined in claim 1 above; and Rx1 and Rx2 are

the same as or different from each other and each represents hydrogen atom, formyl group or a  $C_{1-6}$  alkyl group,  $C_{2-7}$  aliphatic acyl group or  $C_{7-19}$  aromatic acyl group, each of which may be substituted have one or more substituents), provided that in the case where T is a single bond and X is oxygen atom in the above definition is excluded; Y represents a  $C_{5-12}$  aromatic hydrocarbon group or  $C_{3-7}$  alicyclic hydrocarbon group which may be substituted have one or more substituents and which may have one or more heteroatoms selected from the group consisting of oxygen atom, sulfur atom, nitrogen atom, phosphorus, arsenic, antimony, silicon, germanium, tin, lead, boron or mercury; ring Z represents a benzene  $C_{5-6}$  aromatic hydrocarbon group which may further have 0 to 4 substituents and which may have one or more heteroatoms as defined above and

wherein the substitutent for the C<sub>1-6</sub> alkyl group is at least one selected from the group consisting of hydroxyl group, thiol group, nitro group, morpholino group, thiomorpholino group, a halogen atom, nitrile group, azide group, formyl group, alkyl group, alkenyl group, alkynyl group, alkoxy group, halogenoalkyl group, hydroxyalkyl group, guanidino group, formimidoyl group, acetoimidoyl group, carbamoyl group, thiocarbamoyl group, carbamoyl alkyl group, alkyl carbamoyl group, carbamide group, alkanoyl group, amino group, alkyl amino

group, dialkyl amino group, amino alkyl group, carboxy group, alkoxycarbonyl group, alkoxycarbonyl alkyl group, ethoxycarbonyl methyl group, alkyloxyalkyl group, alkylthioalkyl group, aminoalkyl aminoalkyl group, alkyl carbonyloxy group, arylalkoxy alkoxy alkyl group, hydroxyalkoxyalkyl group, arylalkoxyalkyl group, quaternary ammonio group, cycloalkyl group, cycloalkenyl group, aryl group, alkyl thio group, aryl thio group, aryl lower alkyl group, sulfonyl group, aryloyl group, halogenoaryl group, oxyalkoxy group, and

wherein the substituents for the other substituted groups are at least one selected from the group consisting of alkyl group, alkenyl group, alkynyl group, alkoxy group substituted with hydroxyl group, thiol group, nitro group, morpholino group, thiomorpholino group, halogen atom, nitrile group, azide group, formyl group, amino group, alkyl amino group, dialkyl amino group, carbamoyl group and sulfonyl group; and the a group represented by the formula:

(wherein each symbol has the same meaning as defined <u>in claim 1</u> above) and the a group represented by the formula:

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(wherein each symbol has the same meaning as defined <u>in claim 1</u> above) are bound to each other via 3 atoms on the ring Z.

- 12. (Currently Amended) The medicament pharmaceutical composition according to claim 11, which is efficacious a medicament based on PPAR  $\alpha$  and  $\gamma$  dual agonism.
- 13. (Currently Amended) The medicament pharmaceutical composition according to claim 11, which is efficacious a medicament based on PPAR  $\alpha$ ,  $\beta$  and  $\gamma$  triple agonism.
- 14. (Currently Amended) The medicament pharmaceutical composition according to claims 11 to 13, which is an insulinresistant improver.
- 15. (Currently Amended) The medicament pharmaceutical composition according to claims 11 to 13, which is an agent for preventing or treating diabetes mellitus.
- 16. (Currently Amended) The medicament pharmaceutical composition according to claims 11 to 13, which is an agent for preventing or treating X syndromes.

17. (Currently Amended) A method for preventing, treating or ameliorating diseases against which PPAR  $\alpha$  and  $\gamma$  dual agonism or PPAR  $\alpha$ ,  $\beta$  and  $\gamma$  triple agonism is efficacious, by administering a pharmacologically effective amount of the compound according to claim 1, a salt thereof, an ester thereof or a hydrate thereof of them to a patient,

wherein said diseases are selected from the group consisting of diabetes mellitus, X syndromes, hyperglycemia and hyperlipemia.

## 18. Canceled